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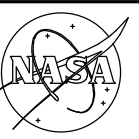
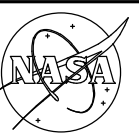
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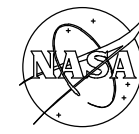
ARCHITECT/ENGINEER STAMP

N232 COLLABORATIVE SUPPORT FACILITY

BUILDING N232 - BUSH CIRCLE

MOFFETT FIELD, CALIFORNIA 94035

PROJECT STATUS			PRELIMINARY - NOT FOR CONSTRUCTION		
ISSUE	DATE	DESCRIPTION	<div>Ames Research Center Moffet Field, California</div> <div>N232 COLLABORATIVE SUPPORT FACILITY</div> <div>COVER SHEET</div>		
1	10/20/2008	30% PRICING			
2	11/07/2008	30% DESIGN REVISION			
3	12/12/2008	60% INTERNAL QA/QC & COST ESTIMATE			
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6	02/16/2009	90% QAQC & COST ESTIMATE			
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DRAWN	G JOHNSON	DATE			
DESIGNED	WMHP	DATE			
CHECKED	R PRADHAN	DATE			
PROJ/MGR		DATE			
REQUESTOR		DATE			
R&GA		DATE			
SAFETY		DATE			
SUPERVISOR		DATE			
SIZE	SCALE	CASE CODE	INDEX	SHEET	REV
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DESIGNED	WM+P				
CHECKED	R PRADHAN				
PROJUMGR					
REQUESTOR					
RS&A					
SAFETY					
SUPERVISOR					
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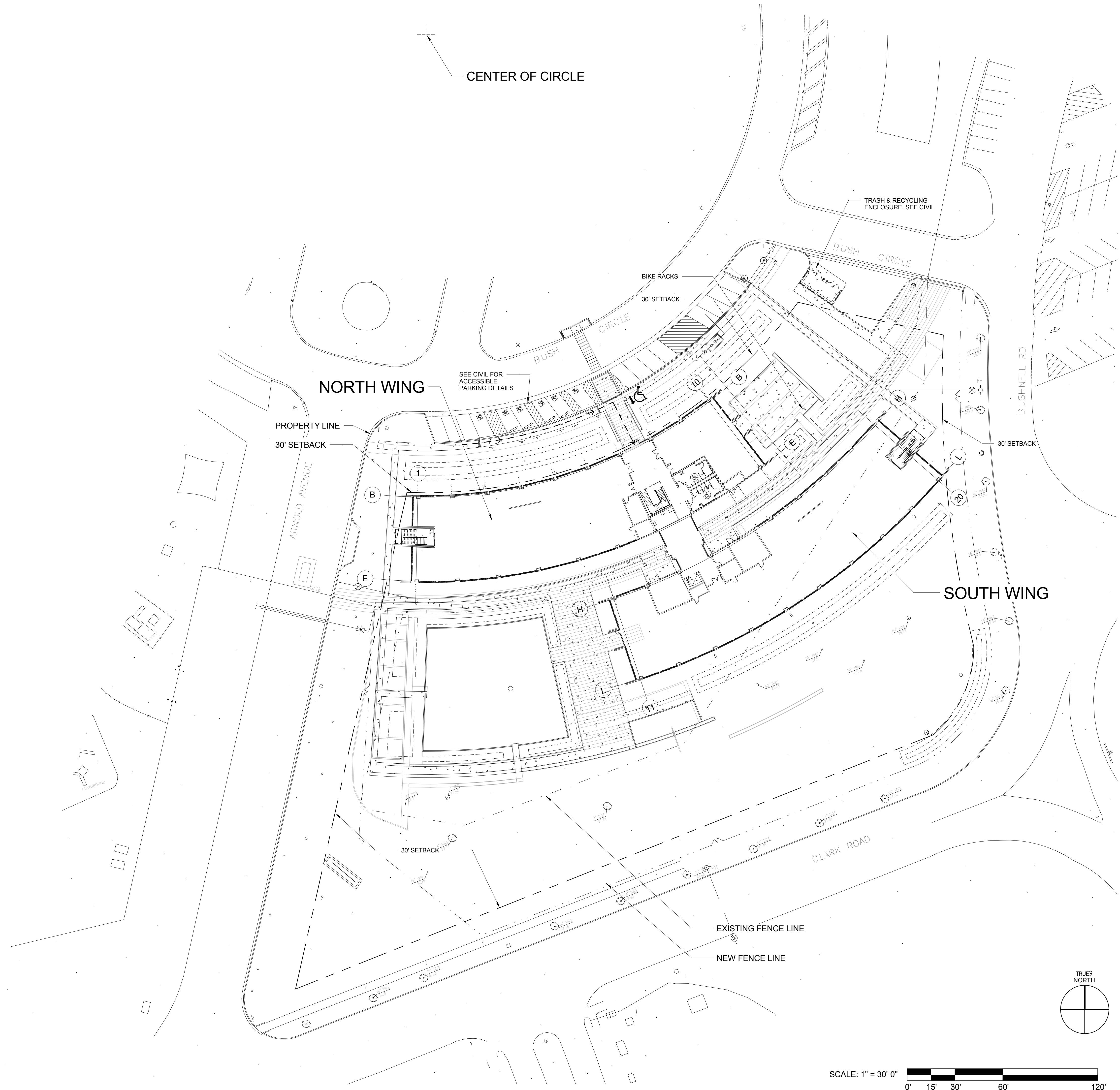
<div>CODES & STANDARDS</div> <div><div><div>APPLICABLE CODES AND REGULATIONS</div><div><div>1. FEDERAL CODES AND STANDARDS</div><div><ul style="list-style-type: none">- UNIFORM FEDERAL ACCESSIBILITY STANDARDS- CODE OF FEDERAL REGULATIONS (CFR) IN ITS ENTIRETY- UNITED STATES STATUTES:<ul style="list-style-type: none">* MIGRATORY BIRD TREATY* ARCHEOLOGICAL AND HISTORIC PRESERVATION ACT, 1976* ARCHEOLOGICAL RESOURCES PROTECTION ACT* CLEAN WATER ACT* COASTAL ZONE MANAGEMENT ACT, 1972* NATIONAL ENVIRONMENTAL POLICY ACT, 1969* NATIONAL HISTORIC PRESERVATION ACT, 1966* CLEAN AIR ACT* COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION & LIABILITY ACT, 1980* POLLUTION PREVENTION ACT, 1990- USGBC LEED NC2.2, EB AND CI REQUIREMENTS AS GUIDANCE FOR THE SELF CERTIFICATION.</div></div><div><div>2. NASA-MANDATED CODES AND STANDARDS</div><div><ul style="list-style-type: none">- FACILITY PROJECT IMPLEMENTATION HANDBOOK NPR8820.2C- NASA SAFETY MANUAL W/ CHANGES NPR 8715.3- NASA TECHNICAL STANDARD 8711.19 SAFETY STANDARDS FOR FIRE PROTECTION- NASA TECHNICAL STANDARD 8719.7 FACILITY SYSTEM SAFETY GUIDEBOOK- NASA SAFETY AND HEALTH HANDBOOK OCCUPATIONAL SAFETY AND HEALTH PROGRAM NPR 8715.1- AMES HEALTH AND SAFETY MANUAL, APG 1700.1- AMES ENVIRONMENTAL PROCEDURES AND GUIDELINES APG 8800.3- FACILITIES MAINTENANCE MANAGEMENT, NPR 8831- NPR 8831.2, FACILITIES MAINTENANCE MANAGEMENT (CONTAINING FACILITY/EQUIPMENT INSPECTION AND ACCEPTANCE PROGRAM USING RELIABILITY CENTERED MAINTENANCE TECHNOLOGIES)- APD 8830.1, RELIABILITY CENTERED MAINTENANCE PROGRAM FOR INSTITUTIONAL EQUIPMENT- NEPA MANAGEMENT, APG 8800.3, CHAPTER 22- ENVIRONMENTAL CONSIDERATIONS FOR CONSTRUCTION PROJECTS, APG 8800.3, CHAPTER 17- ASME PRESSURE VESSEL AND PIPING COSTS</div></div><div><div>3. CALIFORNIA CODE AND STANDARDS</div><div><ul style="list-style-type: none">- AMERICANS WITH DISABILITIES ACT, JANUARY 26, 1992- CALIFORNIA BUILDING CODE (CBC), 2007 EDITION- CALIFORNIA PLUMBING CODE (CPC), 2007 EDITION- CALIFORNIA FUEL GAS CODE (CFG), 2007 EDITION- CALIFORNIA MECHANICAL CODE (CMC), 2007 EDITION- CALIFORNIA ELECTRICAL CODE (CEC), 2007 EDITION- CALIFORNIA ENERGY CODE, 2007 EDITION- CALIFORNIA ELEVATOR SAFETY CODE, 2007 EDITION- CALIFORNIA FIRE CODE (CFC), 2007 EDITION- CALIFORNIA FUEL GAS CODE (CFG), 2007 EDITION- CALIFORNIA CODE OF BUILDING CONSERVATION- CALIFORNIA CODE OF REGULATIONS, TITLE 8 (8 CCR), DIVISION OF INDUSTRIAL SAFETY<ul style="list-style-type: none">- CCR TITLE 19, CHAPTER 2, SUBCHAPTER 3, ARTICLE 4- CCR TITLE 22, SECTION 66200, HAZARDOUS WASTE MANAGEMENT- CCR TITLE 22, DIVISION 19, STATE FIRE MARSHAL- CCR TITLE 22, DIVISION 19.1, OFFICE OF EMERGENCY SERVICES- CALIFORNIA HEALTH AND SAFETY CODE, CHAPTER 6.95</div></div></div></div> <div><div>APPLICABLE CODES AND REGULATIONS</div><div><div>4. LOCAL ADMINISTRATIVE AGENCY CODES AND STANDARDS</div><div><ul style="list-style-type: none">- NS-517.31, SANTA CLARA COUNTY HAZARDOUS MATERIALS STORAGE ORDINANCE- CITY OF SUNNYVALE SEWER USE ORDINANCE, TITLE 12- NS-517.44, SANTA CLARA COUNTY TOXIC GAS ORDINANCE- CITY OF PALO ALTO SEWER USE ORDINANCE, CHAPTER 16.09- CAS000001 GENERAL INDUSTRIAL STORM WATER DISCHARGE PERMIT- CITY OF MOUNTAIN VIEW SEWER SPECIFICATIONS, CITY OF MOUNTAIN VIEW- PUBLIC WORKS DEPARTMENT- BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGULATIONS, 1-13- CITY OF SAN JOSE FIRE DEPARTMENT PERMIT APPLICATION, PLAN SUBMITTAL, DESIGN, INSTALLATION AND INSPECTION REQUIREMENTS- ALL APPLICABLE REGULATIONS AND REQUIREMENTS OF LOCAL UTILITY COMPANIES HAVING JURISDICTION.</div></div><div><div>5. OTHER ADOPTED CODES AND STANDARDS</div><div><ul style="list-style-type: none">- ASCE 7-05, MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.- ACI 318-05, AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.- AMERICAN INSTITUTE OF STEEL CONSTRUCTION INC., THIRTEENTH EDITION FOR LRFD DESIGN- AMERICAN INSTITUTE OF STEEL CONSTRUCTION INC., NINTH EDITION FOR ALLOWABLE STRESS DESIGN.- 2005 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS (AISC 341-05)- 2005 PREQUALIFIED CONNECTIONS FOR SPECIAL AND INTERMEDIATE STEEL MOMENT FRAME FOR SEISMIC APPLICATIONS. (ANSI/AISC 358-05)- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) 117.1- INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)- ILLUMINATING ENGINEERS SOCIETY OF NORTH AMERICA (IES)- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)- ASME A17.1-2000 SAFETY CODE FOR ELEVATORS AND ESCALATORS- UNDERWRITERS LABORATORIES (UL)- 2005 ENERGY EFFICIENCY STANDARDS FOR RESIDENTIAL AND NON-RESIDENTIAL BUILDINGS - CALIFORNIA ENERGY COMMISSION- ASHRAE: HANDBOOK OF FUNDAMENTALS - HVAC SYSTEM DUCT DESIGN, CHAPTER 35- ASHRAE: HANDBOOK OF HVAC APPLICATIONS- ASHRAE: HANDBOOK OF HVAC SYSTEMS AND EQUIPMENT- ASHRAE: STANDARD 15: SAFETY CODE FOR MECHANICAL REFRIGERATION- ASHRAE: STANDARD 55: THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY- ASHRAE: STANDARD 62: VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY- ASHRAE: STANDARD 90.1: ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS.- ASHRAE: GUIDELINE 12-2000: MINIMIZING THE RISK OF LEGIONELLOSIS ASSOCIATED WITH BUILDING WATER SYSTEMS.- NATIONAL FUEL GAS CODE STANDARD 54.- AMERICAN SOCIETY OF PLUMBING ENGINEERS: ASPE DATA BOOKS.- SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. (SMACNA):<ul style="list-style-type: none">- SMACNA HVAC DUCT CONSTRUCTION STANDARDS: METAL AND FLEXIBLE.- SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL.- SMACNA FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS.- SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS.- NFPA STANDARDS AS LISTED IN THE RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER CHAPTER 120-3-3, SEPTEMBER 10, 2003 INCLUDING THE FOLLOWING:<ul style="list-style-type: none">- NFPA 13 - STANDARD FOR INSTALLATION OF SPRINKLERS, 2002- NFPA 101 - LIFE SAFETY CODE, 2003- NFPA 72 - NATIONAL FIRE ALARM CODE, 2002- NFPA 8719.11 - SAFETY STANDARD FOR FIRE PROTECTION- NFPA 10, PORTABLE FIRE EXTINGUISHERS, 2002 EDITION- NFPA 70, NATIONAL ELECTRICAL CODE, 2002 EDITION- BY REFERENCE, ADOPTION OF NATIONAL FIRE PROTECTION STANDARDS AND RECOMMENDED PRACTICES AND GUIDES, CURRENT EDITIONS.</div></div></div>
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APPLICABLE CODES AND REGULATIONS

6. BY REFERENCE, ADOPTION OF:

- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) STANDARDS INCLUDING ANSII/IEEE C2, NATIONAL ELECTRICAL SAFETY CODE (LATEST EDITION)
- INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) STANDARDS
 - INTERNATIONAL ELECTRICAL TESTING ASSOCIATION (NETA) INCLUDING: NETA ATS, ACCEPTANCE TESTING SPECIFICATIONS FOR ELECTRICAL POWER DISTRIBUTION EQUIPMENT AND SYSTEMS (LATEST EDITION)
- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) STANDARDS
 - AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) STANDARDS
 - ELECTRONIC INDUSTRIES ASSOCIATION (EIA)
- PRODUCT SAFETY STANDARDS SUCH AS UNDERWRITER'S LABORATORIES (UL), FACTORY MUTUAL (FM), INSTRUMENT, SYSTEMS AND AUTOMATION SOCIETY (ISA), ETC.

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- NOTES:
- PATH OF TRAVEL, AS INDICATED, IS A BARRIER-FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. SUCH PATH OF TRAVEL SHALL BE 48" MINIMUM WIDE BY 80" MINIMUM HIGH, SLIP-RESISTANT AND SHALL NOT EXCEED 2% CROSS-SLOPE. THE CONTRACTOR SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED. PATH OF TRAVEL SHALL BE FREE FROM PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM THE FACE OF WALL AND ABOVE 27" AND LESS THAN 80" ABOVE FINISHED FLOOR (CBC 1133.B.8.6). PATH OF TRAVEL SHALL COMPLY WITH CBC 1133B.
- ALL EXTERIOR ENTRANCES AND EXITS INDICATED ON THE PATH OF TRAVEL LINE ON THIS PLAN ARE ACCESSIBLE AND COMPLY WITH CBC 1133B.1.1, INCLUDING:
- A. 32" CLEAR OPENING
- B. REQUIRED STRIKE EDGE CLEARANCE AT PULL SIDE OF DOOR (24" FOR FRONT AND LATCH, 36" FOR HINGE APPROACH)
- C. LEVEL LANDINGS (2% MAX SLOPE)
- D. ACCESSIBLE THRESHOLD, HARDWARE, CLOSER, KICK-PLATE
- E. INTERNATIONAL SYMBOL OF ACCESSIBILITY ON EXTERIOR SIDE OF ENTRANCE
- F. TACTILE EXIT SIGNAGE ON INTERIOR SIDE OF EXIT DOOR, AS REQUIRED

---> ACCESSIBLE PATH OF TRAVEL

ACCESSIBLE PATH SIGNAGE

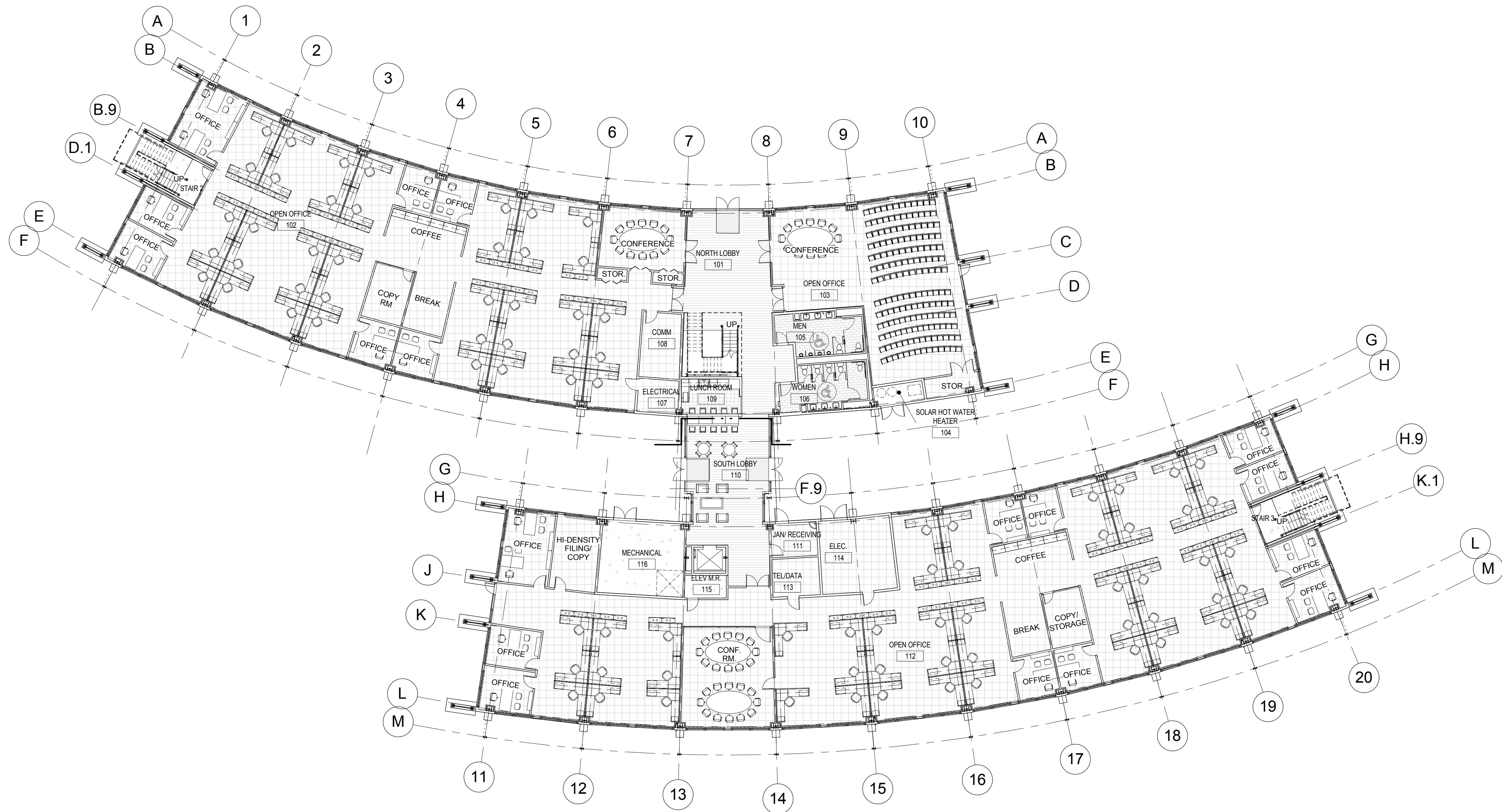
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R&GA		DATE
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		OF

Ames Research Center
Moffet Field, California

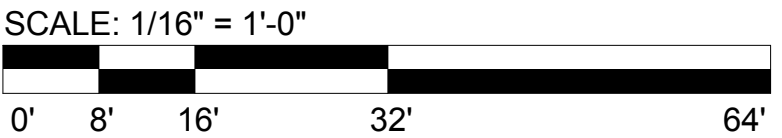
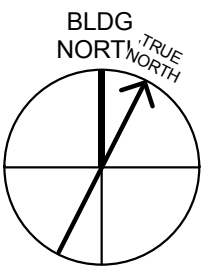
N232 COLLABORATIVE SUPPORT FACILITY

ACCESSIBILITY SITE PLAN

G100



NOTE: FOR REFERENCE ONLY.
FURNITURE AND INTERIOR
PARTITIONS NOT IN CONTRACT



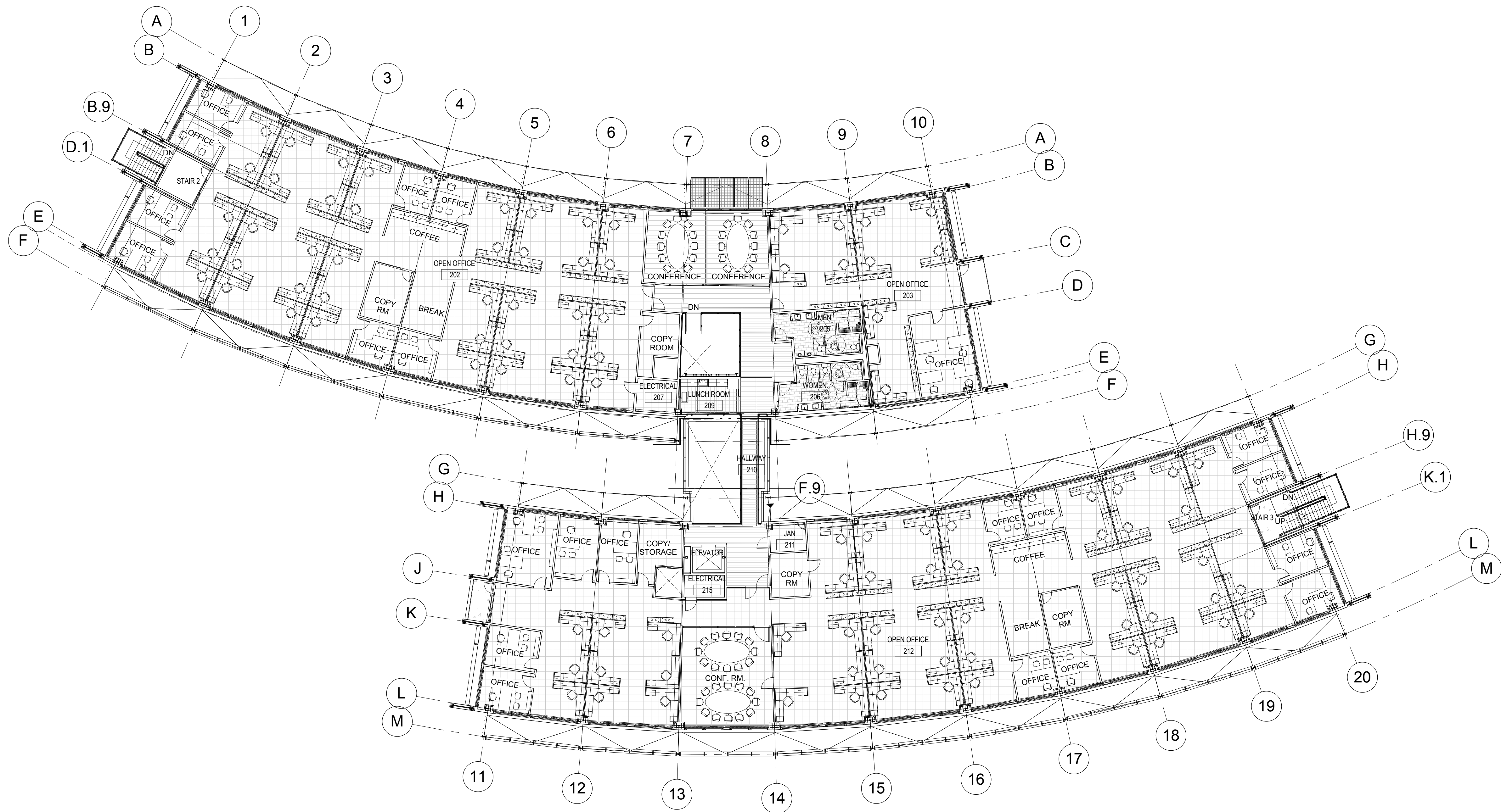
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R&GA		DATE
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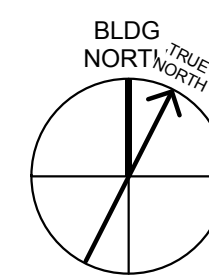
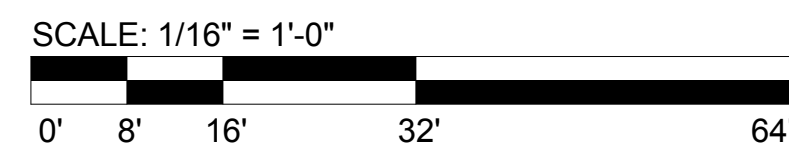
Ames Research Center
Moffet Field, California

N332 COLLABORATIVE SUPPORT FACILITY

OVERALL SPACE PLAN - FIRST
FLOOR



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 Ames Research Center
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY
OVERALL SPACE PLAN - SECOND
FLOOR